



Factoring

...More Factoring Trinomials: $ax^2 + bx + c$

Factor, write prime if prime.

1. $3x^2 + 4x + 1$

9. $2a^2 + 7ab - 15b^2$

2. $5z^2 + 7z + 2$

10. $12x^2 + 17x + 6$

3. $2n^2 - 11n + 5$

11. $4a^2 - 4ab - 5b^2$

4. $3z^2 + z - 2$

12. $56y^2 + 15y - 56$

5. $5h^2 - 2h - 7$

13. $12x^2 - 29xy + 14y^2$

6. $8s^2 - 10st + 3t^2$

14. $64x^2 + 32y - 21y^2$

7. $6x^2 + 19x + 15$

15. $16x^2 + 56xy + 49y^2$

8. $28a^2 + 5ab - 12b^2$

16. $18x^2 - 57x + 35$

Factoring Trinomials of the form $ax^2 + bx + c$

$$3x^2 - 9x - 12 = 3(x^2 - 3x - 4) = 3(x - 4)(x + 1)$$

Factor.

1. $5x^2 - 10x - 15$

11. $3x^2 - 4x - 32$

2. $6x^2 - 15x - 21$

12. $4x^2 - 16x + 15$

3. $3x^2 - 10x + 7$

13. $4x^2 + 7x - 15$

4. $2x^2 - 11x - 21$

14. $6a^2 - 21a + 15$

5. $4x^2 + 2x - 20$

15. $11x^2 + 122x + 11$

6. $3x^2 - 5x - 12$

16. $3x^2 - 20x - 7$

7. $7x^2 - 26x - 8$

17. $2y^2 - 17y + 35$

8. $12x^2 - 6x - 18$

18. $4x^2 - 16x + 15$

9. $6x^2 - 13x + 6$

19. $6x^2 + 25x + 25$

10. $2x^2 + 9x + 10$

20. $7c^2 - 16c + 9$